

CLAIMS

1	1.	A consumer electronic device, comprising:
2		a network interface for communicating with a remote server; and
3		a media storage for storing program code modules for controlling an operation
4		of the consumer electronic device, the program code modules
5		comprising:
6		an error recovery module for utilizing the network interface to
7		communicate with the remote server and attempt to recover from
8		an error experienced by the consumer electronic device; and
9		a monitoring module for monitoring the operation of the consumer
10		electronic device and determining whether to activate the error
11		recovery module.
1	2.	The consumer electronic device of claim 1, wherein the consumer
2	electronic d	levice is a digital video recorder.
1	3.	The congruence electronic devices of claim 1 whomein the modic stars as
2	comprises:	The consumer electronic device of claim 1, wherein the media storage
	-	
3		a system area for storing the monitoring module and a control module for
4		controlling the operation of the consumer electronic device; and
5		an error recovery area for storing the error recovery module.
	-	
1	4.	The consumer electronic device of claim 3, wherein the error recovery area
2	comprises:	
3		data modules for storing backup copies of the monitoring and control
4		modules;
5	,	wherein the error recovery module is adapted to restore the monitoring and/or
6		control modules from the data modules to the system area.

1	5. The consumer electronic device of claim 1, wherein the error recovery
2	module comprises:
3	a network recovery module for downloading and installing new program code
4	modules from the remote server.
1	6. The consumer electronic device of claim 1, wherein the network interface
2	is adapted to communicate with a diagnostic server and wherein the error recovery
3	module further comprises:
4	a diagnostic module for communicating with the diagnostic server to diagnose
5	the error experienced by the consumer electronic device.
1	7. The consumer electronic device of claim 1, wherein the error recovery
2	module is adapted to:
3	attempt a first-level solution to the error; and
4	responsive to a failure of the first-level solution, attempt a second-level
5	solution to the error.
1	
1	8. The consumer electronic device of claim 7, wherein the first-level solution
 2	comprises attempting to recover from the error by performing a minor repair on the
3	program code modules stored by the media storage.
1	9. The consumer electronic device of claim 7, wherein the second-level
2	solution comprises activating a network recovery module for downloading program code
3	modules from a remote server and installing the program code modules on the media
4	storage.
•	storage.
1	10. The consumer electronic device of claim 1, further comprising:
2	a nonvolatile memory for storing the monitoring and/or error recovery
3	modules.

1	11. The consumer electronic device of claim 1, further comprising:		
2	a status module for displaying a status of the error recovery module.		
1	12. A method of attempting to resolve an error suffered by a consumer		
2	electronic device, comprising the steps of:		
3	attempting to diagnose the error; and		
4	attempting a solution to the diagnosed error suffered by the consumer		
5,	electronic device, the attempt performed automatically responsive to a		
6	detection of the error.		
1	13. The method of claim 12, wherein the step of attempting a solution to the		
2	diagnosed error comprises the step of:		
3	attempting to execute backup copies of program code modules for controlling		
4	the consumer electronic device stored on a media storage associated		
5	with the device.		
1	14. The method of claim 12, wherein the step of attempting a solution to the		
2	diagnosed error comprises the step of:		
3	downloading program code modules for controlling the consumer electronic		
4	device from a remote server in communication with the consumer		
5	electronic device.		
1	15. The method of claim 12, wherein the step of attempting a solution to the		
2	diagnosed error comprises the steps of:		
3	attempting a first-level solution to the error; and		
4	responsive to a failure of the first-level solution, attempting a second-level		
5	solution to the error.		